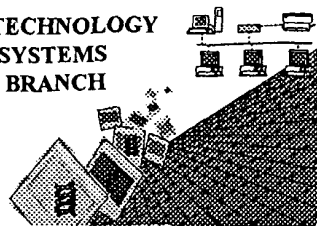


BIOTECHNOLOGY  
SYSTEMS  
BRANCH



**RAW SEQUENCE LISTING**  
**ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/786,480A  
Source: PT/09  
Date Processed by STIC: 5/14/2002

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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

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Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

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Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
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Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002



PCT09

## RAW SEQUENCE LISTING

DATE: 05/14/2002

PATENT APPLICATION: US/09/786,480A

TIME: 15:38:17

Input Set : A:\MSIB005.ST25.txt

Does Not Comply

Output Set: N:\CRF3\05142002\I786480A.raw

Corrected Diskette Needed

*see p. 6*

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3 <110> APPLICANT: Goldsbrough, Andrew
4   Colliver, Steve
6 <120> TITLE OF INVENTION: Improvements in or Relating to Plant Starch Composition
8 <130> FILE REFERENCE: 11951.0005.PCUS00 MSIB:005
10 <140> CURRENT APPLICATION NUMBER: 09/786,480A
11 <141> CURRENT FILING DATE: 2001-06-13
13 <150> PRIOR APPLICATION NUMBER: PCT/GB99/03011
14 <151> PRIOR FILING DATE: 1999-09-09
16 <150> PRIOR APPLICATION NUMBER: EP 98307337.0
17 <151> PRIOR FILING DATE: 1998-09-10
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39 gagaatggat actccatctg ggataaagga ttcaattcct gcttgatca agtactccgt      180
41 gcagactcca ggagatatac catacaatgg aatatattat gatcctcccg aagaggagaa      240
43 gtatgtattc aagcatcctc aacctaaacg accaaaatca ttgcggatat atgaaacaca      300
45 tgttggcatg agtagcccg gaaacaaagat caacacatat gcaaacttca gggatgaggt      360
47 gcttccaaga attaaaagac ttggatacaa tgcagtgcaa ataattggca tccaggagca      420
49 ctccatactat ggaagctttg ggtaccatgt taccaatttc tttgcaccaa gtagccgttt      480
51 tgggtcccca gaagatttaa aatctttgat tgatagagct cacgagcttg gcttggttgt      540
53 cctcatggat gttgttcaca gtcacgcgtc aaataatacc ttggacgggt tgaatggttt      600
55 tgatggcacg gatacacatt acttccatgg cggttcacgg ggccatcact ggatgtggga      660
57 ttcccggtgtg tttaactatg ggaataagga agttataagg tttctacttt ccaatgcaag      720
59 atgggtggcta gaggagtata agtttgatgg ttccgatc gatggcgaga cctccatgat      780
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63 tgccactgat gtagatgcgg tcgtttactt gatgctgatg aatgatctaa ttcattgggtt      900
65 ttatcctgaa gccgtaacta tcggtgaaga tgtagtgga atgcctacat ttgcccttcc      960
67 tgttcaagtt ggtgggggtt gttttgacta tcgcttacat atggctgttg ccgacaaatg      1020
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71 aacaaacaga aggtggcccg aaaagtgtgt tacttatgct gaaagtacg atcaagcact      1140
73 gggttgagac aagactattg cattctgggt gatggacaag gatatgtatg atttcatggc      1200
75 tctgaacgga ccttcgacac ctagtattga tcgtggaata gcaactgata aaatgattag      1260
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## RAW SEQUENCE LISTING

DATE: 05/14/2002

PATENT APPLICATION: US/09/786,480A

TIME: 15:38:17

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81 cccaggaaac aacaacagtt acgacaaatg ccgtcgaaga tttgaccagg gtgatgcaga 1440
83 atttccttagg tatcatggta tgcagcagtt tgatcaggcg atgcagcatc ttgaggaaaa 1500
85 atatggcttt atgacatcag accaccagta cgtatctcgg aaacatgagg aagataaggt 1560
87 gatcgtgttt gaaaaagggg acttggtatt tgtgttcaac ttccactgga gtaatagcta 1620
89 ttctgactac cgggttggct gtttaaagcc tgggaagtac aaggttgtct tagactcaga 1680
91 cgccggactc tttggtggat ttggtaggat ccatcacact gcagagcact tcacttctga 1740
93 ctgccaacat gacaacaggc cccattcgtt ctcatgttac actcctagca gaacctgtgt 1800
95 tgtctatgct ccaatgaact aaacagcaaa gtgcagcata cgcatgcacg ctgttgttgc 1860
97 tagcactagc aagaaaaaat cgtatggtca atacaaccag gtgcaagggt taataagggt 1920
99 ttgcttcaac gagtcttgga tagacaagac aacatgatga tgtgctctgt gctcccaaat 1980
W--> 101 tcccagggcg ttgtggagaa aaaatgctca tctgtgttat tttatggatc agggangaaa 2040
W--> 103 cctcccccaa anacccttt tttttttgaa aggnnggatag gcccccgtn tctgcatntg 2100
W--> 105 gatgcctcct taaatntttg tagccataaa ccattgctag tgtcctntaa attgacagtt 2160
W--> 107 tagaatagng gttntacttt tgtattttnt ttttgacagt tagactgtat tcctcaaata 2220
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121 <222> LOCATION: (675)..(746)
122 <223> OTHER INFORMATION: Xaa = any amino acid
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128 1 5 10 15
130 Trp Glu Met Phe Leu Pro Asn Asn Ala Asp Gly Ser Pro Pro Ile Pro
131 20 25 30
133 His Gly Ser Arg Val Lys Val Arg Met Asp Thr Pro Ser Gly Ile Lys
134 35 40 45
136 Asp Ser Ile Pro Ala Trp Ile Lys Tyr Ser Val Gln Thr Pro Gly Asp
137 50 55 60
139 Ile Pro Tyr Asn Gly Ile Tyr Tyr Asp Pro Pro Glu Glu Glu Lys Tyr
140 65 70 75 80
142 Val Phe Lys His Pro Gln Pro Lys Arg Pro Lys Ser Leu Arg Ile Tyr
143 85 90 95
145 Glu Thr His Val Gly Met Ser Ser Pro Glu Pro Lys Ile Asn Thr Tyr
146 100 105 110
148 Ala Asn Phe Arg Asp Glu Val Leu Pro Arg Ile Lys Arg Leu Gly Tyr
149 115 120 125
151 Asn Ala Val Gln Ile Met Ala Ile Gln Glu His Ser Tyr Tyr Gly Ser
152 130 135 140
154 Phe Gly Tyr His Val Thr Asn Phe Phe Ala Pro Ser Ser Arg Phe Gly
155 145 150 155 160
157 Ser Pro Glu Asp Leu Lys Ser Leu Ile Asp Arg Ala His Glu Leu Gly
158 165 170 175
160 Leu Val Val Leu Met Asp Val Val His Ser His Ala Ser Asn Asn Thr

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## RAW SEQUENCE LISTING

DATE: 05/14/2002

PATENT APPLICATION: US/09/786,480A

TIME: 15:38:17

Input Set : A:\MSIB005.ST25.txt

Output Set: N:\CRF3\05142002\I786480A.raw

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163	Leu Asp Gly	Leu Asn Gly Phe	Asp Gly Thr Asp Thr	His Tyr Phe His			
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167		210		215		220	
169	Tyr Gly Asn Lys Glu Val Ile Arg Phe	Leu Leu Ser Asn Ala Arg Trp					
170	225		230		235		240
172	Trp Leu Glu Glu Tyr Lys Phe Asp Gly	Phe Arg Phe Asp Gly Ala Thr					
173		245		250		255	
175	Ser Met Met Tyr Thr His His Gly	Leu Gln Val Thr Phe Thr Gly Ser					
176		260		265		270	
178	Tyr His Glu Tyr Phe Gly Phe Ala Thr	Asp Val Asp Ala Val Val Tyr					
179		275		280		285	
181	Leu Met Leu Met Asn Asp Leu Ile His Gly	Phe Tyr Pro Glu Ala Val					
182		290		295		300	
184	Thr Ile Gly Glu Asp Val Ser Gly Met Pro Thr	Phe Ala Leu Pro Val					
185	305		310		315		320
187	Gln Val Gly Gly Val Gly Phe Asp Tyr Arg	Leu His Met Ala Val Ala					
188		325		330		335	
190	Asp Lys Trp Ile Glu Leu Leu Lys Gly	Asn Asp Glu Ala Trp Glu Met					
191		340		345		350	
193	Gly Asn Ile Val His Thr Leu Thr Asn Arg	Arg Trp Pro Glu Lys Cys					
194		355		360		365	
196	Val Thr Tyr Ala Glu Ser His Asp Gln Ala	Leu Val Gly Asp Lys Thr					
197		370		375		380	
199	Ile Ala Phe Trp Leu Met Asp Lys Asp Met Tyr	Asp Phe Met Ala Leu					
200	385		390		395		400
202	Asn Gly Pro Ser Thr Pro Ser Ile Asp Arg	Gly Ile Ala Leu His Lys					
203		405		410		415	
205	Met Ile Arg Leu Ile Thr Met Gly Leu Gly	Gly Glu Gly Tyr Leu Asn					
206		420		425		430	
208	Phe Met Gly Asn Glu Phe Gly His Pro Glu Trp	Ile Asp Phe Pro Arg					
209		435		440		445	
211	Gly Pro Gln Val Leu Pro Thr Gly Lys Phe Ile	Pro Gly Asn Asn Asn					
212		450		455		460	
214	Ser Tyr Asp Lys Cys Arg Arg Arg Phe Asp	Gln Gly Asp Ala Glu Phe					
215	465		470		475		480
217	Leu Arg Tyr His Gly Met Gln Gln Phe Asp	Gln Ala Met Gln His Leu					
218		485		490		495	
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221		500		505		510	
223	Lys His Glu Glu Asp Lys Val Ile Val Phe	Glu Lys Gly Asp Leu Val					
224		515		520		525	
226	Phe Val Phe Asn Phe His Trp Ser Asn Ser Tyr	Phe Asp Tyr Arg Val					
227		530		535		540	
229	Gly Cys Leu Lys Pro Gly Lys Tyr Lys Val	Val Leu Asp Ser Asp Ala					
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232	Gly Leu Phe Gly Gly Phe Gly Arg Ile His	His Thr Ala Glu His Phe					
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## RAW SEQUENCE LISTING

DATE: 05/14/2002

PATENT APPLICATION: US/09/786,480A

TIME: 15:38:17

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Output Set: N:\CRF3\05142002\I786480A.raw

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235 Thr Ser Asp Cys Gln His Asp Asn Arg Pro His Ser Phe Ser Val Tyr
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239          595          600          605
241 Cys Ser Ile Arg Met His Ala Val Val Ala Ser Thr Ser Lys Lys Lys
242          610          615          620
244 Ser Tyr Gly Gln Tyr Asn Gln Val Gln Gly Leu Ile Arg Val Cys Phe
245 625          630          635          640
247 Asn Glu Ser Trp Ile Asp Lys Thr Thr Cys Ala Leu Cys Ser Gln Ile
248          645          650          655
250 Pro Arg Ala Leu Trp Arg Lys Asn Ala His Leu Cys Tyr Phe Met Asp
251          660          665          670
W--> 253 Gln Gly Xaa Asn Leu Pro Gln Xaa Pro Leu Phe Phe Leu Lys Gly Gly
254          675          680          685
W--> 256 Ala Pro Gly Xaa Cys Xaa Trp Met Pro Pro Xaa Phe Val Ala Ile Asn
257          690          695          700
W--> 259 His Cys Cys Pro Xaa Asn Gln Phe Arg Ile Xaa Val Xaa Leu Leu Tyr
260 705          710          715          720
W--> 262 Phe Xaa Phe Asp Ser Thr Val Phe Leu Lys Ser Thr Cys Cys Leu Leu
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W--> 265 Glu Xaa Glu Lys Asn Gln Arg Leu Xaa Xaa Lys Lys Lys Lys Lys
266          740          745          750
268 Lys Lys Lys Lys Lys Asn
269          755
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274 <213> ORGANISM: Triticum aestivum
276 <220> FEATURE:
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278 <222> LOCATION: (77)..(1036)
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287 atgggaaatg agttcgggca tctgaaatgg atagactttc caagaggccc acaagtactt      180
289 ccaagtggta agttcatccc aggaacacagc aacagttacg acaaatgccg tcgaagattt      240
291 gacctgggtg atgcagaatt tcttaggtat catggtatgc agcagtttga tcaggcaatg      300
293 cagcatcttg aggaaaaata tggttttatg acatcagacc accagtacgt atctcggaaa      360
295 cacgaggaag ataaggtgat cgtgtttgaa aaaggggact tgggtattgt gttcaacttc      420
297 cactggagta atagctatct cgactaccgg gtcggtgtt taaagcctgg gaagtacaag      480
299 gtggtcttag actcagacgc tggactcttt ggtggatttg gtaggatcca tcacactgca      540
301 gagcacttca cttctgactg ccaacatgac aacaggcccc attcgtttctc agtgtacact      600
303 cctagcagaa cctgtgttgt ctatgctcca atgaactaac agcaagggtgc agcatacgcg      660
305 tgcgcgctgt tggtgctagt agcaagaaaa atcgtacggt caatacagcc aggtgcaagg      720
307 tttaataagg attttttgct tcaacgagtc ctggatagac aagacaacat gatgttgttg      780
309 cgtgtgctcc caatccccag ggcgttgtga agaaaacatg ctcactctgtg ttatgatttt      840
311 atggatcagc gacgaaactt cccccaataa cccatgcctc cttaaactct tgtggccgta      900
313 aaccattgct agtgtcctct aaattgacag tttagcatag aggttttact tttgtatctt      960

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## RAW SEQUENCE LISTING

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PATENT APPLICATION: US/09/786,480A

TIME: 15:38:17

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 336 atgggaaatg agttcgggca tcctgaatgg atagactttc caagaggccc acaagtactt 180  
 338 ccaactggta agttcatccc nngaacaac aacagttacg acaaatgccg tcgaaaattt 240  
 340 gacctgggtg atgcagaatt tcttaggtat catggtatgc agcagtttga tcaggcgatg 300  
 342 cagcatcttg aggaaaaata tggctttatg acatcagacc accagtacgt atctcggaaa 360  
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 346 cactggagta atagctatct cggtaccggt gttggctggt taaagcctgg gaagtacaag 480  
 348 gttgtcttag actcagacgc cggactcttt ggtggatttg gtaggatcca tcacactgca 540  
 350 gagcacttca cttctgactg ccaacatgac aacaggcccc attcgttctc agtgtacact 600  
 352 cctagcagaa cctgtgttgt ctatgctcca atgaactaaa cagcaaagtg cagcatacgc 660  
 354 atgcacgctg ttgttgctag cactagcaag aaaaaatcgt atggtcaata caaccagggtg 720  
 356 caagggttaa taagggtttt tgcttcaacg agtcctggat agacaagaca acatgatgat 780  
 358 gtgctctgtg ctcccaaatt cccaggcggt tgnngggaaa acatgctcat ctgtgttatt 840  
 360 attttatgga tcagnngnga aacctcccc aaatacccat gcctccttaa acttttgtgg 900  
 362 tcctaaacca tggctactat cctctaaatt ggcagtttag catagagggt ttacttttgt 960  
 364 aaattttttt tgacagttaa tagactctat tcctcaaata attgacatgt cctttacaag 1020  
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 368 aaaaaaa 1087  
 371 <210> SEQ ID NO: 5  
 372 <211> LENGTH: 1120  
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 379 <223> OTHER INFORMATION: N = any nucleotide  
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 387 atgggaaatg agttcgggca tcctgaatgg atagactttc caagaggccc acaagtactt 180  
 389 ccaagtggta agttcatccc aggaacaac aacagttacg acaaatgccg tcgaagattt 240  
 391 gacctgggtg atgcagaatt tcttaggtat catggtatgc agcagtttga tcaggcaatg 300  
 393 cagcatcttg aggaaaaata tggctttatg acatcagacc accagtacgt ttctcggaaa 360  
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 397 cactggagta gtagctatct cgactaccgg gtcggctggt taaagcctgg gaagtacaag 480  
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RAW SEQUENCE LISTING ERROR SUMMARY  
 PATENT APPLICATION: US/09/786,480A

DATE: 05/14/2002  
 TIME: 15:38:18

Input Set : A:\MSIB005.ST25.txt  
 Output Set: N:\CRF3\05142002\I786480A.raw

*FYI*

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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 Seq#:2; Xaa Pos. 675,680,692,694,699,709,715,717,722,738,745,746  
 Seq#:3; N Pos. 77,1036  
 Seq#:4; N Pos. 201,202,813,815,855,857  
 Seq#:5; N Pos. 802,849,865,887,903,911,929,960,982,987,1002,1057,1080,1083  
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 Seq#:9; N Pos. 169,216,232,254,270,278,296,327,349,354,369,424,447  
 Seq#:10; N Pos. 179,181,221,223  
 Seq#:54; Xaa Pos. 6,21,26,30,31,40,41,45,59,61,62,63,64,66,69,70,71,74,75  
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 Seq#:54; Xaa Pos. 799,801,802,803,804,805,806,808,809,810,812,814,816,817  
 Seq#:54; Xaa Pos. 818,821,822,823,824,825,826,827,828,829,830,832,833,834  
 Seq#:54; Xaa Pos. 835,838,839,840,841,842,844,845,846,847,848,849,852,854  
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 Seq#:54; Xaa Pos. 872,873,874,875,876,877,878,879,880

Use of <220> Feature(NEW RULES):

Sequence(s) are missing the <220> Feature and associated headings.  
 Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence" or "Unknown". Please explain source of genetic material in <220> to <223> section (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp.29631-32) (Sec.1.823 of new Rules)

Seq#:37,38,39,40,41,43,44,45,46,47,48,49,50,51

*These are the errors*